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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-56d/CEMENT/2019-20 Date: 11.03.2020

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of Work**	:	Construction of CC roads at Medarahalli colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	EE/DD/W.O/501/2019-20 Dated : 18.01.2020
*** Sample ID**	:	Cement
Sample Received on	:	09.03.2020
Period of Testing	:	09.03.2020 to 11.03.2020
Report Issue Date	:	11.03.2020

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.:CTCE/BBMP/KRIDL/W.No.12/CSR-56d/Cube/2020-21 11.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of CC roads at Medarahalli colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/501/2019-20 Dated : 18.01.2020
* Sample ID	:	RCC Drain raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2020
Report Issue Date	:	11.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2020	11.04.2020	8.170	602.1	26.76
2	14.03.2020	11.04.2020	8.268	612.5	27.22
3	14.03.2020	11.04.2020	8.392	625.8	27.81

*Information is furnished by the Customer/Representative.

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Job No.:CTCE/BBMP/KRIDL/W.No.12/CSR-56d/Cube/2020-21

13.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of CC roads at Medarahalli colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/501/2019-20 Dated : 18.01.2020
* Sample ID	:	RCC Drain raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.04.2020
Report Issue Date	:	13.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2020	13.04.2020	8.128	605.6	26.92
2	16.03.2020	13.04.2020	8.265	613.6	27.27
3	16.03.2020	13.04.2020	8.325	625.5	27.80

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-56d/Cube/2020-21 15.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Name of the work	:	Construction of CC roads at Medarahalli colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/501/2019-20 Dated : 18.01.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.04.2020
Report Issue Date	:	15.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2020	15.04.2020	8.215	623.8	27.72
2	18.03.2020	15.04.2020	8.326	635.4	28.24
3	18.03.2020	15.04.2020	8.287	608.5	27.04

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ಬಿ.ಎಸ್.ಎ.ಪಿ. ರಸ್ತೆ, ಶಕ್ತಿಗಣಪತಿನಗರ, ಬೆಂಗಳೂರು.

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* Name of the work	:	Construction of CC roads at Medarahalli colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/501/2019-20 Dated : 18.01.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.04.2020
Report Issue Date	:	17.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2020	17.04.2020	8.237	607.5	27.00
2	20.03.2020	17.04.2020	8.365	616.3	27.39
3	20.03.2020	17.04.2020	8.219	605.4	26.91

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* Reference	:	EE/DD/W.O/501/2019-20 Dated : 18.01.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.04.2020
Report Issue Date	:	18.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2020	18.04.2020	8.127	602.5	26.78
2	21.03.2020	18.04.2020	8.253	613.2	27.25
3	21.03.2020	18.04.2020	8.349	620.4	27.57

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* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of CC roads at Medarahalli colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/501/2019-20 Dated : 18.01.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.04.2020
Report Issue Date	:	20.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2020	20.04.2020	8.137	618.6	27.49
2	23.03.2020	20.04.2020	8.250	624.5	27.76
3	23.03.2020	20.04.2020	8.310	635.9	28.26

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-56d/Precast slab /2020-21 27.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of work**	:	Construction of CC roads at Medarahalli colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	EE/DD/W.O/501/2019-20 Dated : 18.01.2020
*** Sample ID**	:	Precast slab (100mm thick)
*** Grade of Concrete**	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2018), SP-24:1983.
Sample Received on	:	25.04.2020
Date of Testing	:	27.04.2020
Report Iuuse Date	:	27.04.2020

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.410	2546.48	1.64	0.961	29.60	15.08	16.28	16.94	21.17
2	50.00	84.00	0.419	2540.42	1.68	0.965	32.20	16.40	17.71	17.10	21.37
3	50.00	85.00	0.420	2516.52	1.70	0.968	33.80	17.21	18.59	17.99	22.49

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